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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/885,311	06/20/2001	Bryan Patrick Livengood	LE9-99-015	4577
21972 75	90 04/07/2003			
LEXMARK INTERNATIONAL, INC. INTELLECTUAL PROPERTY LAW DEPARTMENT 740 WEST NEW CIRCLE ROAD			EXAMINER	
			RODEE, CHRISTOPHER D	
BLDG. 082-1 LEXINGTON, 1	KY 40550-0999		ART UNIT	PAPER NUMBER
LLXIIVOTOIV, I	10330-0777		1756	1/
			DATE MAILED: 04/07/2003	′ (

Please find below and/or attached an Office communication concerning this application or proceeding.

				1725	
4		Application No.	plicant(s)	()	
Office Action Summary		09/885,311	LIVENGOOD ET AL.	LIVENGOOD ET AL.	
		Examin r	Art Unit		
		Christopher D RoDee	1756		
Period f	Th MAILING DATE of this communication ap or Reply	pears on the cover sh	t with the correspond nce addre	}ss	
THE - Extended after - If the results of the result	HORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.7 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a rep o period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may be within the statutory minimum of will apply and will expire SIX (6) a, cause the application to become	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this common the ABANDONED (35 U.S.C. § 133).	nunication.	
1)🛛	Responsive to communication(s) filed on 24	February 2003 .			
2a)⊠	This action is FINAL . 2b)☐ TI	nis action is non-final.			
3)□	closed in accordance with the practice under			nerits is	
· ·	tion of Claims				
4)[2]	Claim(s) <u>1,3-22 and 30</u> is/are pending in the 4a) Of the above claim(s) is/are withdra				
5\⊠	Claim(s) <u>30</u> is/are allowed.	IWIT HOITI CONSIDERATION			
	Claim(s) <u>1 and 3-22</u> is/are rejected.				
7) 					
.,. ⊟(8		or election requirement			
-/-	tion Papers	or cicollorroquiromoni	•		
9)[The specification is objected to by the Examine	er.			
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to	by the Examiner.		
	Applicant may not request that any objection to the	ne drawing(s) be held in a	beyance. See 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	_ is: a)□ approved b)[disapproved by the Examiner.		
	If approved, corrected drawings are required in re	eply to this Office action.			
12)	The oath or declaration is objected to by the Ex	xaminer.			
Priority	under 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S	.C. § 119(a)-(d) or (f).		
, a) All b) Some * c) None of:				
	1. Certified copies of the priority documen	ts have been received.			
	2. Certified copies of the priority documen	ts have been received	in Application No		
*	3. Copies of the certified copies of the price application from the International Boundary See the attached detailed Office action for a list	ureau (PCT Rule 17.2(a)).	age	
14)	Acknowledgment is made of a claim for domes	tic priority under 35 U.S	S.C. § 119(e) (to a provisional a	pplication).	
	 a) The translation of the foreign language pr Acknowledgment is made of a claim for domes 	• •			
Attachme	•	•	,		
2) 🔲 Noti	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notic	view Summary (PTO-413) Paper No(s). e of Informal Patent Application (PTO-1		
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U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

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DETAILED ACTION

Response to Amendment

The amendment filed 24 February 2003 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The material which is not supported by the original disclosure is as follows: the change in description of the term "random copolymer" on specification page 12. The specification as originally filed stated, "Random copolymers lie within these two extremes" of alternating copolymers and block copolymers. By removal of this statement applicants are changing the description of their invention to now include alternating copolymers within the scope of random copolymers. The change in the passage spanning pages 14 and 15 similarly changes the description of random copolymers. This passage presented the concept that domains of a monomer are permitted within the scope of a random copolymer, but by amendment this disclosure has been removed. The concept of a random copolymer is changed by these amendments. Note the comments conceming the rejection over Crystal that appear to agree that the scope of "random" in the claims is changed by these amendments (response p. 5, bottom).

Applicant is required to cancel the new matter by reinserting the deleted phrases in the reply to this Office Action.

Claim Rejections - 35 USC §§ 102 & 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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Claims 1, 3-9, 11, 12, 14, 21, and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Lin in US Patent 5,955,235.

This rejection was presented in the last Office action. Because of the amendments to the specification it appears that a pure alternating copolymer compatibilizer, such as shown by Lin, is included within the scope of the claims. Applicants acknowledge that Lin's copolymer is indeed "a regularly alternating copolymer of olefin component and imide coponent". Applicants also are understood to state that any ambiguity about the specification disclosure "negating regularly alternating copolymers" as random copolymers is removed. It is unclear if this means that the regular alternating copolymers are included or excluded within the scope of the claims. Based on the specification amendments it appears that they are indeed included within the scope of the rejected claims. Clarification in the written response may prove useful.

Claims 1, 3-10, 12, and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Crystal in US Patent 4,027,048.

Claims 1, 3-10, 12-18, and 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crystal in US Patent 4,027,048 in view of Katada *et al.* in US Patent 5,972,553 and further in view of Sato *et al.* in US Patent 5,985,501.

Claims 11 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crystal in US Patent 4,027,048 in view of Katada *et al.* in US Patent 5,972,553 and further in view of Sato *et al.* in US Patent 5,985,501 as applied to claims 1, 3-10, 12-18, and 20-22 above, and further in view of Mahabadi *et al.* in US Patent 5,364,724.

Applicants traverse these rejections because the term shaded modifying random copolymer in Crystal "is a contradiction and therefore has no meaning at all." The shaded

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nature of the copolymer in Crystal means to applicants that it is not a random copolymer. This is emphasized by the specification amendments.

In response the Examiner again notes that Crystal <u>states</u> that the dispersing agent copolymer is a random copolymer. In column 4, lines 33+ Crystal states that dispersing agent may take the form of a block copolymer, a graft copolymer, or a shaded random copolymer. Note that the block copolymer and shaded random copolymer are <u>alternatives</u>. Clearly the shaded random copolymer is different from a block copolymer in Crystal.

Crystal shows that one of ordinary skill considers a shaded polymer as a random copolymer, not a block copolymer and not a graft copolymer. There is some "randomness" in the manner in which the copolymer units assemble during the polymerization process even though there is more of one monomer unit at one end of the copolymer and more of the other monomer unit at the other end. Crystal's shaded copolymer is a <u>random</u> copolymer -- the reference states this explicitly. The language of the reference cannot be discounted as attempted by applicants.

The specification as filed (i.e., without the amendments objected to under § 132) would also lead the artisan to consider the reference's shaded copolymer to be between a block copolymer and an alternating copolymer. The specification as filed states that the random copolymers fall within this area. Thus Crystal and the as filed specification are consistent in there teaching that a shaded copolymer is within the scope of a random copolymer.

The section 103 rejections are traversed on the same basis as the section 102 rejections. Lacking any specific traversal concerning the propriety of combination or motivation, the Examiner will rely on the comments above concerning Crystal as applicable to these rejections as well.

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Given the fact that the Crystal reference states that its shaded copolymer is a <u>random</u> copolymer and given that the specification as filed permitted shaded random copolymers within the scope of random copolymers, the rejections must be retained.

Allowable Subject Matter

Claim 30 is allowed.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher D RoDee whose telephone number is 703 308-2465. The examiner can normally be reached on most weekdays from 6 to 4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Huff can be reached on 703 308-2464. The fax phone numbers for the

organization where this application or proceeding is assigned are 703 872-9310 for regular

communications and 703 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 308-0661.

CHRISTOPHER ROBEL
PRIMARY EXAMINED

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cdr April 4, 2003